

Applicant : Tong et al.
Serial No. : 10/661,748
Filed : September 12, 2003
Page : 2 of 10

Attorney's Docket No. 16113-0323001

OK TO ENTER: /TP/

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Canceled)

2. (Canceled)

3. (Previously Presented) A computer-implemented method comprising:
receiving a first search query;
receiving a second search query;
identifying a relationship between the first search query and the second search query
based at least in part on a criterion;
determining a first article associated with the second search query;
determining a first ranking score for the first article based at least in part on data
associated with the first search query, wherein the data associated with the first search query
comprises a total selection score for the first search query, wherein the total selection score
comprises a total number of users that selected a result returned for a search for the first search
query; and
outputting a search result comprising the first article.

4. (Canceled)

5. (Previously Presented) A computer-implemented method comprising:
receiving a first search query;
receiving a second search query;

Applicant : Tong et al.
Serial No. : 10/661,748
Filed : September 12, 2003
Page : 3 of 10

Attorney's Docket No. 16113-0323001

identifying a relationship between the first search query and the second search query based at least in part on a criterion;

determining a first article associated with the second search query;

determining a first ranking score for the first article based at least in part on data associated with the first search query, wherein the data associated with the first search query comprises an instance score for the first search query, wherein the instance score comprises a number of instances the first article was shown in a search result for the first search query; and

outputting a search result comprising the first article.

6-7. (Canceled)

8. (Currently Amended) The computer-implemented method of claim 3, wherein the total selection score for the first search query comprises selections ~~elections~~ made in search results for the first search query in a context of the second search query.

9. (Previously Presented) The computer-implemented method of claim 5, wherein the instance score for the first search query comprises selections made in search results for the first search query in a context of the second search query.

10. (Previously Presented) The computer-implemented method of claim 5, wherein the number of instances the first article was shown in a search result for the first search query comprises instances included in a context of the second search query.

11. (Previously Presented) The computer-implemented method of claim 3, wherein the data associated with the first search query comprises a second selection score for a second article associated with the first search query.

12. (Canceled)

Applicant : Tong et al.
Serial No. : 10/661,748
Filed : September 12, 2003
Page : 4 of 10

Attorney's Docket No. 16113-0323001

13. (Previously Presented) A computer-implemented method comprising:

receiving a first search query;

receiving a second search query;

identifying a relationship between the first search query and the second search query based at least in part on a criterion;

determining a first article associated with the second search query, wherein determining the first article associated with the second search query comprises determining the first article associated with the second search query and with the first search query;

determining a first selection score for the first article when associated with the first search query;

determining a first ranking score for the first article based at least in part on data associated with the first search query, wherein determining the first ranking score for the first article based at least in part on data associated with the first search query comprises determining the first ranking score for the first article based at least in part on the first selection score; and

outputting a search result comprising the first article.

14. (Previously Presented) The computer-implemented method of claim 13, wherein determining the first article associated with the second search query and with the first search query comprises:

determining an initial search result for the second search query, the initial search result comprising the first article; and

determining that a search result for the first search query comprises the first article.

15. (Previously Presented) The computer-implemented method of claim 3, wherein the first article comprises a representation of the first article.

Applicant : Tong et al.
Serial No. : 10/661,748
Filed : September 12, 2003
Page : 5 of 10

Attorney's Docket No. 16113-0323001

16. (Previously Presented) The computer-implemented method of claim 15, wherein the representation of the first article comprises a uniform resource locator.

17. (Canceled)

18. (Currently Amended) A computer-implemented method comprising:
receiving a first search query;
receiving a second search query;
identifying a relationship between the first search query and the second search query based at least in part on a criterion;
determining a first article associated with the second search query;
determining a first ranking score for the first article based at least in part on data associated with the first search query, wherein determining the first ranking score for the first article based at least in part on data associated with the first search query comprises determining a number of times the first article was selected when included in search results for the first search query, wherein determining the number of times the first article was selected when included presented in search results for the first search query comprises determining a number of clickthroughs for the first article when presented in search results for the first search query; and
outputting a search result comprising the first article.

19. (Previously Presented) The computer-implemented method of claim 13, wherein determining the first ranking score for the first article comprises:

determining a first initial ranking score for the first article when associated with the second search query; and
calculating a mathematical function comprising the first initial ranking score and the first selection score.

Applicant : Tong et al.
Serial No. : 10/661,748
Filed : September 12, 2003
Page : 6 of 10

Attorney's Docket No. 16113-0323001

20. (Previously Presented) The computer-implemented method of claim 19, wherein calculating the mathematical function comprising the first initial ranking score and the first selection score comprises combining the first initial ranking score and the first selection score, weighted with at least one weighting factor.

21. (Previously Presented) The computer-implemented method of claim 20, wherein calculating the mathematical function comprising the first initial ranking score and the first selection score comprises combining the first initial ranking score and the first selection score, normalized with at least one normalization factor.

22. (Previously Presented) The computer-implemented method of claim 3, further comprising:

determining a second article associated with the second search query; and
determining a second ranking score for the second article based at least in part on data associated with the first search query.

23. (Previously Presented) The computer-implemented method of claim 22, further comprising ranking the first article and the second article based at least in part on the first ranking score and the second ranking score.

24. (Previously Presented) The computer-implemented method of claim 22, further comprising providing a search result for the second search query having the first article and the second article ranked according at least in part to the first ranking score and the second ranking score.

25. (Currently Amended) The computer-implemented method of claim 22[[3]], further comprising receiving a third search query; and determining a relationship between the

Applicant : Tong et al.
Serial No. : 10/661,748
Filed : September 12, 2003
Page : 7 of 10

Attorney's Docket No. 16113-0323001

third search query and the second search query, and wherein determining the first ranking score for the first article is further based at least in part on data associated with the third search query.

26. (Currently Amended) The computer-implemented method of claim 3, wherein receiving determining the first search query further comprises determining a query previously made consecutively with the second query.

27-56. (Canceled)

57. (Previously Presented) The computer-implemented method of claim 3, wherein the criterion is at least one of an order of submission, a time period, a misspelling relationship, a synonym relationship, an antonym relationship, or an acronym relationship.

58. (Canceled)

59. (Previously Presented) A computer-implemented method comprising:
in a system configured to receive search queries from client devices and provide search results that are responsive to corresponding received search queries, receiving, during a first time period, a plurality of instances of a first search query and a plurality of instances of a second search query that is different than the first search query;

identifying a relationship between the first search query and the second search query, and storing an indication of the relationship;

during the first time period, tracking and storing user data associated with search results that are provided in response to the second search query;

receiving, subsequent to the first time period, the first search query, and determining a plurality search results that are responsive to the first search query;

Applicant : Tong et al.
Serial No. : 10/661,748
Filed : September 12, 2003
Page : 8 of 10

Attorney's Docket No. 16113-0323001

employing the stored indication of the relationship to access the stored user data and ranking results within the plurality of search results based at least in part on the accessed user data; and

outputting the ranked plurality of search results.

60. (Currently Amended) A computer-readable storage medium comprising:
a server device process to receive a first search query and a second search query;
~~the server device to receive a second search query;~~
a search engine to identify a relationship between the first search query and the second search query based at least in part on a criterion;
a related query processor to determine a first article associated with the second search query;

a ranking processor to determine a first ranking score for the first article based at least in part on data associated with the first search query, wherein determining the first ranking score for the first article based at least in part on data associated with the first search query comprises determining a number of times the first article was selected when included in search results for the first search query, wherein determining the number of times the first article was selected when presented in search results for the first search query comprises determining a number of clickthroughs for the first article when presented in search results for the first search query; and
the server process device to output a search result comprising the first article.

61. (Currently Amended) A computer-readable storage medium comprising:
a server process device to receive search queries from client devices and provide search results that are responsive to corresponding received search queries, wherein the server process device, during a first time period, receives a plurality of instances of a first search query and a plurality of instances of a second search query that is different than the first search query; the server process device further comprising:

Applicant : Tong et al.
Serial No. : 10/661,748
Filed : September 12, 2003
Page : 9 of 10

Attorney's Docket No. 16113-0323001

a search engine to identify a relationship between the first search query and the second search query, and storing an indication of the relationship,

a related query processor to track and store, during the first time period, user data associated with search results that are provided in response to the second search query,

a document locator to receive the first search query subsequent to the first time period and determine a plurality search results that are responsive to the first search query, and

a ranking processor to employ the stored indication of the relationship to access the stored user data and ranking results within the plurality of search results based at least in part on the accessed user data; and

wherein the server process device outputs the ranked plurality of search results.